Panasonic Broadcast

AK-HC1500G
Menu Information

Setting of menu items

■How to display the menus

Two methods are used to display the menus.

- **Using AK-HC1500 multi purpose camera to display the menus:**
  ① Hold down the MENU switch on the rear panel of the main unit for at least 3 seconds to display the TOP menu.
  ② Use the UP/DOWN switch to move the cursor to the target item, and press the ENTER switch to move to a menu at a lower hierarchical level.

- **Using AK-HRP150 camera controller**
  ① Press the MENU ON/OFF switch on the AK-HRP150 so that its lamp lights. The TOP menu now appears.
  ② Move the cursor to the target item, and press the MENU switch to move to a menu at a lower hierarchical level.

■TOP menu

When the VIDEO MENU is selected:

```
-USER MENU
 1.MAINTENANCE
 2.SETTING
 3.CAMERA ID
 4.FILE OPERATION
```

When the FILM MENU is selected:

```
-USER MENU (FILM MENU)
 1.MAINTENANCE
 2.SETTING
 3.CAMERA ID
 4.FILE OPERATION
 5.TIME CODE
```

Setting of menu items

① MAINTENANCE menu

```
-* MAINTENANCE *
   1.BLACK SHADING
   2.PEDESTAL,GAMMA
   3.FLARE
   4.KNEE,WHITE CLIP
   5.R/B GAIN
   6.DETAIL
   7.SKIN TONE DETAIL
   8.GAIN,AUTO IRIS
   9.SUPER GAIN
  10.FRAME MODE
  11.MATRIX
  12.COLOR CORRECTION
```

[1] BLACK SHADING

```
-** BLACK SHADING **

  DETECTION
  CORRECT(DIG)      :ON
```

DETECTION [READY, ACTIVE]
For automatically correcting the black shading.

CORRECT(DIG) [OFF, ON]
For ON/OFF control of the detection correction.

Setting of menu items

① MAINTENANCE menu

[2] PEDESTAL, GAMMA

```
-**  PEDESTAL,GAMMA(1/2)  **

  M PEDESTAL          :+000
  R PEDESTAL          :+000
  B PEDESTAL          :+000
  M GAMMA             :0.45
  R GAMMA             :+00
  B GAMMA             :+00
  M BLACK GAMMA       :+00
  R BLACK GAMMA       :+00
  B BLACK GAMMA       :+00
  GAMMA               :ON
  BLACK GAMMA         :ON
```

M PEDESTAL [–200 to +200]
For adjusting the black level.

R PEDESTAL [–100 to +100]
For correcting the red in relation to the master pedestal.

B PEDESTAL [–100 to +100]
For correcting the blue in relation to the master pedestal.
When the AK-HRP150 has been connected, M PEDESTAL, R PEDESTAL and B PEDESTAL operations cannot be performed using the menu.

M GAMMA
[0.35 to 0.75 (DRS OFF), –10 to +10 (DRS ON)]
For adjusting the gamma characteristics.

R GAMMA
[–15 to +15 (DRS OFF), –10 to +10 (DRS ON)]
For adjusting the gamma characteristics of the red in relation to the master gamma characteristics.

B GAMMA
[–15 to +15 (DRS OFF), –10 to +10 (DRS ON)]
For adjusting the gamma characteristics of the blue in relation to the master gamma characteristics.

M BLACK GAMMA [–31 to +31]
For adjusting the gamma characteristics in the vicinity of the black.

R BLACK GAMMA [–15 to +15]
For adjusting the gamma characteristics of the red in the vicinity of the black in relation to the master gamma characteristics.

Setting of menu items

① MAINTENANCE menu

[2] PEDESTAL, GAMMA

```
-**  PEDESTAL,GAMMA(1/2)  **

  M PEDESTAL          :+000
  R PEDESTAL          :+000
  B PEDESTAL          :+000
  M GAMMA             :0.45
  R GAMMA             :+00
  B GAMMA             :+00
  M BLACK GAMMA       :+00
  R BLACK GAMMA       :+00
  B BLACK GAMMA       :+00
  GAMMA               :ON
  BLACK GAMMA         :ON
```

B BLACK GAMMA [–15 to +15]
For adjusting the gamma characteristics of the blue in the vicinity of the black in relation to the master gamma characteristics.

GAMMA [OFF, ON]
For turning the gamma correction ON or OFF.

BLACK GAMMA [OFF, ON]
For turning the black gamma correction ON or OFF.

When ON has been selected as the DRS setting, the BLACK GAMMA setting does not take effect.

When the VIDEO MENU is selected:

```
-**  PEDESTAL,GAMMA(2/2) **

  EFFECT DEPTH        :1
  DRS                 :OFF
```

EFFECT DEPTH [1 to 5]
For selecting the effects of the contrast adjustment when ON has been set for DRS.

DRS [OFF, ON]
For adjusting the contrast automatically when this is set to ON.

When the FILM MENU is selected:

```
-**  PEDESTAL,GAMMA(2/2) **

  CINE GAMMA SELECT:FILM REC
  BLACK STR. LEVEL :00%
  DYNAMIC LEVEL    :500%
```

CINE GAMMA SELECT
[VIDEO REC, FILM REC]
For selecting either the film-use or video-use cine gamma characteristics.

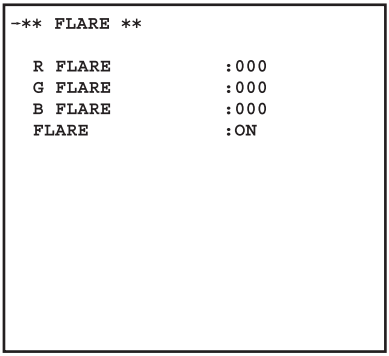
BLACK STR. LEVEL [00% to 30%]
For setting the BLACK STRETCH position.

DYNAMIC LEVEL [200% to 500%]
For setting the dynamic range.

Setting of menu items

① MAINTENANCE menu

[3] FLARE



R FLARE [000 to 100]
G FLARE [000 to 100]
B FLARE [000 to 100]
For adjusting the flare correction.

FLARE [OFF, ON]
For turning the flare correction ON or OFF.

Setting of menu items

① MAINTENANCE menu

[4] KNEE, WHITE CLIP

```
-** KNEE,WHITE CLIP(1/2) **

  M KNEE POINT      :95.00%
  R KNEE POINT      :+00.00%
  B KNEE POINT      :+00.00%
  M KNEE SLOPE      :50
  R KNEE SLOPE      :+00
  B KNEE SLOPE      :+00
  A.KNEE POINT      :95.00%
  A.KNEE LEVEL      :108%
  M WHITE CLIP LVL  :109%
  R WHITE CLIP LVL  :+00%
  B WHITE CLIP LVL  :+00%
```

M KNEE POINT
[80.00% to 107.00% (VIDEO MENU)]
[30% to 90% (FILM MENU/VIDEO REC)]
For adjusting the knee point.

R KNEE POINT [–25.00% to +25.00%]
For correcting the knee point of the red in relation to the master knee point.

B KNEE POINT [–25.00% to +25.00%]
For correcting the knee point of the blue in relation to the master knee point.

M KNEE SLOPE
[00 to 99 (VIDEO MENU)]
[150% to 600% (FILM MENU)]
For adjusting the knee slope.

R KNEE SLOPE [–99 to +99]
For adjusting the knee slope of the red in relation to the master knee slope.

B KNEE SLOPE [–99 to +99]
For adjusting the knee slope of the blue in relation to the master knee slope.

The M KNEE POINT and M KNEE SLOPE settings do not take effect when a setting other than MANUAL is selected for KNEE or ON is selected as the DRS setting when the VIDEO MENU has been selected or when FILM REC is selected as the CINE GAMMA SEL setting when the FILM MENU has been selected.

Similarly, the R/B KNEE POINT and R/B KNEE SLOPE settings do not take effect when a setting other than MANUAL is selected for KNEE or ON is selected as the DRS setting when the VIDEO MENU has been selected or when the FILM MENU has been selected.

Setting of menu items

① MAINTENANCE menu

[4] KNEE, WHITE CLIP

```
-** KNEE,WHITE CLIP(1/2) **

  M KNEE POINT      :95.00%
  R KNEE POINT      :+00.00%
  B KNEE POINT      :+00.00%
  M KNEE SLOPE      :50
  R KNEE SLOPE      :+00
  B KNEE SLOPE      :+00
  A.KNEE POINT      :95.00%
  A.KNEE LEVEL      :108%
  M WHITE CLIP LVL  :109%
  R WHITE CLIP LVL  :+00%
  B WHITE CLIP LVL  :+00%
```

A. KNEE POINT [80.00% to 107.00%]
For setting the auto knee break point position. This setting does not take effect when a setting other than AUTO is selected for KNEE or ON is selected as the DRS setting when the VIDEO MENU has been selected or when the FILM MENU has been selected.

A. KNEE LEVEL [100% to 109%]
For setting the maximum level of auto knee. This setting does not take effect when a setting other than AUTO is selected for KNEE or ON is selected as the DRS setting when the VIDEO MENU has been selected or when the FILM MENU has been selected.

M WHITE CLIP LVL [90% to 109%]
For setting the white clip level.

R WHITE CLIP LVL [–15% to +15%]
For correcting the amount of red for the M WHITE CLIP LVL.

B WHITE CLIP LVL [–15% to +15%]
For correcting the amount of blue for the M WHITE CLIP LVL.

Setting of menu items

① MAINTENANCE menu

[4] KNEE, WHITE CLIP

```
-** KNEE,WHITE CLIP(2/2) **

  KNEE              :MANUAL
  WHITE CLIP        :ON
  HIGH COLOR        :OFF
```

KNEE [OFF, MANUAL, AUTO]
For selecting the knee operation mode.
This setting does not take effect when FILM REC is selected.

WHITE CLIP [OFF, ON]
For tuning white clip ON or OFF.

HIGH COLOR [OFF, ON]
For improving the color reproducibility of the high-brightness areas when it is set to ON.
This setting does not take effect when a setting other than MANUAL is selected for KNEE or ON is selected as the DRS setting when the VIDEO MENU has been selected or when the FILM MENU has been selected.

[5] R/B GAIN

```
-** R/B GAIN **

  R GAIN            :+000
  B GAIN            :+000
  ND FILTER         :CLEAR
```

R GAIN [–200 to +200]
For adjusting the gain of the red.

B GAIN [–200 to +200]
For adjusting the gain of the blue.

ND FILTER [CLEAR, 1/4, 1/16, 1/64]
For selecting the ND filter setting.

When the AK-HRP150 has been connected, the items on this page cannot be operated using the menu.

Setting of menu items

① MAINTENANCE menu

[6] DETAIL

```
-** DETAIL(1/2) **

  DETAIL              :ON
  TOTAL DTL LEVEL     :+00
  H DTL LEVEL         :11
  CRISP               :02
  LEVEL DEPENDENT     :2
  PEAK FREQUENCY      :10
  KNEE APERTURE       :ON
  KNEE APE LEVEL      :3
```

DETAIL [OFF, ON]
For turning all the detail functions ON or OFF.

TOTAL DTL LEVEL [–31 to +31]
For setting the H DTL and V DTL levels.

H DTL LEVEL [0 to 63]
For setting the H DTL level.

CRISP [0 to 31]
For setting the noise elimination level of the detail signals.

LEVEL DEPENDENT [0 to 15]
For removing the detail in the dark areas.

PEAK FREQUENCY [00 to 31]
For setting the H DTL peak frequency.

KNEE APERTURE [OFF, ON]
For turning the emphasizing of the outlines for the high-brightness areas ON or OFF.

KNEE APE LEVEL [0 to 5]
For adjusting the knee aperture level.

Setting of menu items

① MAINTENANCE menu

[6] DETAIL

```
-** DETAIL(2/2) **

  SLIM DETAIL       :OFF
  DETAIL(+)         :+00
  DETAIL(-)         :+00
  DETAIL CLIP       :00
  DETAIL SOURCE     :(G+R)/2
```

SLIM DETAIL [OFF, ON]
For setting the detail more finely at ON.

DETAIL(+) [–31 to +31]
For adjusting the detail gain in the + direction.

DETAIL(–) [–31 to +31]
For adjusting the detail gain in the – direction.

DETAIL CLIP [0 to +63]
For minimizing the glare caused by adding too much detail as a result of a detail clip adjustment.

DETAIL SOURCE
[(G+R)/2, (G+B)/2, (2G+B+R)/4, (3G+B)/4, R, G]
For setting the ratio of the RGB signal components which create the detail.

Setting of menu items

① MAINTENANCE menu

[7] SKIN TONE DETAIL

```
-** SKIN TONE DETAIL **

  SKIN TONE DTL     :OFF
  SKIN GET          :OFF
  SKIN DTL CORING   :5
  Y MAX             :190
  Y MIN             :010
  I CENTER          :055
  I WIDTH           :090
  Q WIDTH           :010
  Q PHASE           :+000
```

SKIN TONE DTL [OFF, ON]
For turning the SKIN TONE DTL ON or OFF.

SKIN GET [OFF, ON]
When ON is selected, the box cursor is output to the screen center. When the image of the subject's skin is placed inside the box cursor and the ENTER operation is performed, I CENTER and Q PHASE are set automatically.

SKIN DTL CORING [0 to 7]
For setting the SKIN TONE DTL coring amount.

Y MAX [0 to 255]
For setting the upper limit of the brightness in the skin tone specification area.

Y MIN [0 to 255]
For setting the lower limit of the brightness in the skin tone specification area.

I CENTER [0 to 255]
For setting the phase of the I axis in the skin tone specification area.

I WIDTH [0 to 255]
For setting the phase width of the I axis in the skin tone specification area.

Q WIDTH [0 to 255]
For setting the phase range of the Q axis in the skin tone specification area.

Q PHASE [–128 to +127]
For setting the phase of the Q axis in the skin tone specification area.

Setting of menu items

① MAINTENANCE menu

[8] GAIN, AUTO IRIS

```
-** GAIN,AUTO IRIS **

  LOW GAIN          :0dB
  MID GAIN          :9dB
  HIGH GAIN         :18dB
  A.IRIS LEVEL      :050
  A.IRIS PEAK/AVE   :050
  A.IRIS WINDOW     :NORM1
  IRIS MODE         :LENS
  IRIS GAIN         :05
```

LOW GAIN [–6 dB to 30 dB]
MID GAIN [–6 dB to 30 dB]
HIGH GAIN [–6 dB to 30 dB]
For setting the amount by which the gain is to be increased when LOW, MID or HIGH has been selected by GAIN SELECT.

A.IRIS LEVEL [0 to 100]
For adjusting the target level (brightness) of the auto iris.

A.IRIS PEAK/AVE [0 to 100]
For setting the ratio between the auto iris light-metering peak value and average value.

A.IRIS WINDOW [NORM1, NORM2, CENTR]
For setting the auto iris light-metering area.
- NORM1: The light is metered on the entire screen (except around the edges).
- NORM2: The light is metered on the entire screen (except at the top).
- CENTR: The light is metered only in the area at the screen center.

IRIS MODE [LENS, CAM]
For switching between the iris gain control on the lens (LENS) and the menu (CAM) to adjust the focusing speed of the auto iris.
Normally, LENS is selected, and the speed is adjusted using the iris gain control on the lens.

IRIS GAIN [01 to 10]
For adjusting the iris gain when CAM has been selected as the IRIS MODE setting.

Setting of menu items

① MAINTENANCE menu

[9] SUPER GAIN

```
-** S.GAIN(1/2) **  S.GAIN1

  MODE              :S.GAIN1
 *TOTAL GAIN        :42dB
  GAIN              :30dB
  PIX MIX           :+6dB
  V MIX             :+6dB
  FRAME MIX         :OFF
  H DETAIL LEVEL    :1
  CRISP             :00
  LEVEL DEPENDENT   :5
  PEAK FREQUENCY    :2
```

These settings are performed when S.GAIN1, S.GAIN2 or S.GAIN3 has been selected by GAIN SELECT.

MODE [S.GAIN1, S.GAIN2, S.GAIN3]
For selecting the S.GAIN storage table.

TOTAL GAIN [0 dB to 72 dB]
For displaying the total gain for GAIN, PIX MIX, V MIX and FRAME MIX.

GAIN [0 dB to 36 dB]
For setting the gain increase.

PIX MIX [OFF, +6 dB]
For setting the addition of horizontal pixels ON or OFF.

V MIX [OFF, +6 dB]
For setting the addition of vertical pixels ON or OFF.

FRAME MIX [OFF, +6 dB to +24 dB]
For setting the gain increase based on accumulation in the CCD image sensor. This setting does not take effect when MENU SEL is set to FILM MENU and the 720/60p or 720/59.94p is selected as the FORMAT setting.

H DETAIL LEVEL [00 to 63]
For setting the H DETAIL level.

CRISP [00 to 31]
For setting the noise elimination level of the detail signals.

Setting of menu items

① MAINTENANCE menu

[9] SUPER GAIN

```
-** S.GAIN(1/2) **  S.GAIN1

  MODE              :S.GAIN1
 *TOTAL GAIN        :42dB
  GAIN              :30dB
  PIX MIX           :+6dB
  V MIX             :+6dB
  FRAME MIX         :OFF
  H DETAIL LEVEL    :1
  CRISP             :00
  LEVEL DEPENDENT   :5
  PEAK FREQUENCY    :2
```

LEVEL DEPENDENT [0 to 15]
For removing the detail in the dark areas. The higher the number set, the wider the range in which the detail is removed.

PEAK FREQUENCY [0 to 31]
For setting the H DTL peak frequency.

```
-** S.GAIN(2/2) **  S.GAIN1

  M GAMMA           :0.50
  M PED OFFSET      :+000
  R PED OFFSET      :+000
  B PED OFFSET      :+000
```

M GAMMA
[0.35 to 0.75 (DRS OFF)]
[–10 to +10 (DRS ON)]
For adjusting the gamma characteristics.

M PED OFFSET [–200 to +200]
For adjusting the amount of offset in the black level.

R PED OFFSET [–200 to +200]
For adjusting the amount of offset in the R pedestal.

B PED OFFSET [–200 to +200]
For adjusting the amount of offset in the B pedestal.

Setting of menu items

① MAINTENANCE menu

[10] FRAME MODE

```
-** FRAME MODE **

  SCAN REVERSE      :OFF
  FRAME RATE RANGE :60-6
  FRAME RATE        :60
```

SCAN REVERSE [OFF, REVERSE1 to 3]
For selecting the video output scanning method.

OFF:	Normal scanning
REVERSE1:	Left/right reversed
REVERSE2:	Top/bottom reversed
REVERSE3:	Top/bottom and left/right reversed

FRAME RATE RANGE [60-6, 60-4]
For selecting the range over which the frame rate can be varied with variable frames.

60-6: 60 to 6 frames per second
60-4: 60 to 4 frames per second

FRAME RATE [60 to 4]
For setting the frame rate.

The FRAME RATE RANGE and FRAME RATE settings take effect when MENU SEL is set to FILM MENU and the 720/60p or 720/59.94p is selected as the FORMAT setting.

Setting of menu items

① MAINTENANCE menu

[11] MATRIX

```
-** MATRIX **

  MATRIX TABLE      :A
  MATRIX R-G        :+00
  MATRIX R-B        :+00
  MATRIX G-R        :+00
  MATRIX G-B        :+00
  MATRIX B-R        :+00
  MATRIX B-G        :+00
```

MATRIX TABLE [A, B]
For selecting the table in which the matrix data is to be stored.

MATRIX R-G [–31 to +31]
MATRIX R-B [–31 to +31]
MATRIX G-R [–31 to +31]
MATRIX G-B [–31 to +31]
MATRIX B-R [–31 to +31]
MATRIX B-G [–31 to +31]
For adjusting the color tone of each color phase.

Setting of menu items

① MAINTENANCE menu

[12] COLOR CORRECTION

```
-** COLOR CORRECTION(1/2) **
            SAT         PHASE
  R         +00          +00
  Mg        +00          +00
  B         +00          +00
  Cy        +00          +00
  G         +00          +00
  Yl        +00          +00
```

```
-** COLOR CORRECTION(2/2) **
            SAT         PHASE
  R-Mg      +00          +00
  Mg-B      +00          +00
  B-Cy      +00          +00
  Cy-G      +00          +00
  G-Yl      +00          +00
  Yl-R      +00          +00
```

R SAT/PHASE [–63 to +63]
Mg SAT/PHASE [–63 to +63]
B SAT/PHASE [–63 to +63]
Cy SAT/PHASE [–63 to +63]
G SAT/PHASE [–63 to +63]
Yl SAT/PHASE [–63 to +63]
R-Mg SAT/PHASE [–63 to +63]
Mg-B SAT/PHASE [–63 to +63]
B-Cy SAT/PHASE [–63 to +63]
Cy-G SAT/PHASE [–63 to +63]
G-Yl SAT/PHASE [–63 to +63]
Yl-R SAT/PHASE [–63 to +63]

For adjusting the color tone of each color phase.

Setting of menu items

② SETTING menu

```
-* SETTING *

  1.MODE
  2.SHUTTER
  3.GEN-LOCK
  4.PIX DEFECT
  5.PROTOCOL
```

[1] MODE

```
-**  MODE(1/2)  **

  D5600K              :OFF
  GAIN SELECT         :LOW
  CAM ID              :BAR
  CAM ID POSI         :1
  MATRIX TABLE        :OFF
  COLOR CORRECTION    :OFF
  DIGITAL EXTENDER    :OFF
  BAR SEL             :FULL(16:9)
  FORMAT              :1080/59.94i
```

D5600K [OFF, ON] :
When the VIDEO MENU is selected
LIGHTING [TUNGSTEN, DAYLIGHT]:
When the FILM MENU is selected
For electrically compensating for a color temperature of approximately 5,600K.

GAIN SELECT
[LOW, MID, HIGH, S.GAIN1 to 3]
For selecting LOW, MID, HIGH, S.GAIN1, S.GAIN2 or S.GAIN3 as the gain setting.

CAM ID [OFF, BAR, ON]
For selecting how the camera ID is to be displayed.

- OFF: The camera ID is not displayed.
- BAR: The camera ID is displayed only in the color bar mode.
- ON: The camera ID is displayed at all times.

Setting of menu items

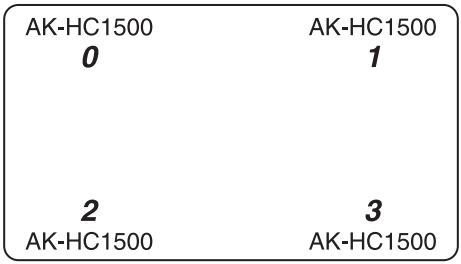
② SETTING menu

[1] MODE

```
-**  MODE(1/2)  **

  D5600K              :OFF
  GAIN SELECT         :LOW
  CAM ID              :BAR
  CAM ID POSI         :1
  MATRIX TABLE        :OFF
  COLOR CORRECTION    :OFF
  DIGITAL EXTENDER    :OFF
  BAR SEL             :FULL(16:9)
  FORMAT              :1080/59.94i
```

CAM ID POSI [0 to 3]
For selecting where the camera ID is to be displayed.
0: top left, 1: top right, 2: bottom left,
3: bottom right



MATRIX TABLE [OFF, A, B]
For selecting OFF, A or B as the matrix setting.

COLOR CORRECTION [OFF, ON]
For turning the color correction function ON or OFF.

NOTE

When DIGITAL EXTENDER is set to ON, the resolution is downgraded. The detail function ceases to work as well.

DIGITAL EXTENDER [OFF, ON]
For digitally doubling the images when set to ON.

BAR SEL
[FULL (16:9), FULL (4:3), SMPTE (16:9), SMPTE (4:3), ARIB]
For selecting the color bars.
Select the 4:3 color bars for down-conversion at the system side. The color bars and characters will then be contained within the 4:3 picture angle.

Setting of menu items

② SETTING menu

[1] MODE

```
-**  MODE(1/2)  **

  D5600K              :OFF
  GAIN SELECT         :LOW
  CAM ID              :BAR
  CAM ID POSI         :1
  MATRIX TABLE        :OFF
  COLOR CORRECTION    :OFF
  DIGITAL EXTENDER    :OFF
  BAR SEL             :FULL(16:9)
  FORMAT              :1080/59.94i
```

FORMAT
[720/60p, 59.94p, 50p, 1080/60i, 59.94i, 50i, 1080/30p, 29.97p, 25p, 24p, 23.98p]
For selecting the video output format.
The format is switched when the ENTER operation is performed.

```
-**  MODE(2/2)  **

  STATUS              :OFF
  MENU ON BAR         :OFF
  MENU SEL            :VIDEO MENU
  FAN                 :AUTO
```

STATUS [OFF, ON]
For turning the AWB/ABB operation displays ON or OFF.
The status displays are as follows.

AWB ACTIVE:
While automatic white balance is being executed.

AWB OK:
When the automatic white balance has been adjusted satisfactorily.

OUT RANGE RB:
When the automatic white balance has not been adjusted satisfactorily.
(“RB” denotes the colors which were not balanced properly.)

HIGH LIGHT NG:
When the lighting is too high.

LOW LIGHT NG:
When the lighting is too low.

ABB ACTIVE:
While automatic black balance is being executed.

IRIS CONTROL NG:
When the lens is open.

Setting of menu items

② SETTING menu

[1] MODE

```
-**  MODE(2/2)  **

  STATUS              :OFF
  MENU ON BAR         :OFF
  MENU SEL            :VIDEO MENU
  FAN                 :AUTO
```

ABB OK:
When the automatic black balance has been adjusted satisfactorily.

OUT RANGE RGB:
When the automatic black balance has not been adjusted satisfactorily.
("RGB" denotes the colors which were not balanced properly.)

AWB OK

MENU ON BAR [OFF, ON]
For selecting whether the menu is to be displayed with the color bars.
Switching from ON to OFF or vice versa is not possible when color bars have been set.

MENU SEL [VIDEO MENU, FILM MENU]
For selecting the menu display.

FAN [OFF, AUTO, ON]
For selecting the operation mode of the air-cooled fan.

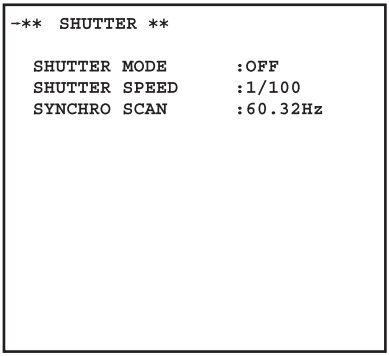
OFF: The fan is always off.
AUTO: The fan is automatically controlled by the temperature sensor.
ON: The fan is running at all times.

At the FAN OFF setting, ensure that the product is operated in an ambient temperature below 86°F (30°C).

Setting of menu items

② SETTING menu

[2] SHUTTER



SHUTTER MODE [OFF, ON, SYNCHRO]
For selecting the operation mode of the shutter.

OFF:	For turning the shutter OFF.
ON:	For setting the shutter speed which was set by SHUTTER SPEED.
SYNCHRO:	For setting the shutter speed which was set by SYNCHRO SCAN.

SHUTTER SPEED
[1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000 (VIDEO MENU)]
[180.0 deg, 172.8 deg, 144.0 deg, 120.0 deg, 90.0 deg, 45.0 deg (FILM MENU)]
For setting the shutter speed at the SHUTTER ON setting.

SYNCHRO SCAN
[60.32 Hz to 150.0 Hz (*1)]
[50.26 Hz to 125.0 Hz (*2)]
[358.1 deg to 144.0 deg (FILM MENU)]
For setting the shutter speed in the synchro scanning mode.

*1: 60p, 60i, 59.94i, 30p or 29.97p format with VIDEO MENU
*2: 50p, 50i, 25p, 24p or 23.98p format with VIDEO MENU

Setting of menu items

② SETTING menu

[3] GEN-LOCK

```
-** GEN-LOCK **

  GEN-LOCK INPUT     :BNC
  H PHASE-COARSE     :+00
  H PHASE-FINE       :+000
  SD-HD PHASE CRS    :+0
  SD-HD PHASE FINE   :+00
```

GEN-LOCK INPUT [BNC, DSUB]
For selecting whether the sync signals are to be input from the BNC or D-SUB connector.

H PHASE-COARSE
[–40 to +40 (720 mode)]
[–60 to +60 (1080 mode)]
For roughly adjusting the horizontal phase.

H PHASE-FINE [–45 to +45]
For finely adjusting the horizontal phase.

SD → HD PHASE CRS [–4 to +4]
For roughly adjusting the phase of the HD video signals when SD sync signals have been input.

SD → HD PHASE FINE [–99 to +99]
For finely adjusting the phase of the HD video signals when SD sync signals have been input.

[4] PIX DEFECT

```
-** PIX DEFECT **

  AUTO DETECTION     :READY




              CNT
     R          1
     G          5
     B          2
     Y          1
```

AUTO DETECTION
When ACTIVE is selected, automatic defect compensation processing* is performed, and when this processing is completed, the status returns to READY.

*** Execute automatic defect compensation processing after supplying the power to the camera at the normal temperature for at least two hours.**

Setting of menu items

② SETTING menu

[5] PROTOCOL

```
-**  PROTOCOL **

  PROTOCOL           :1
```

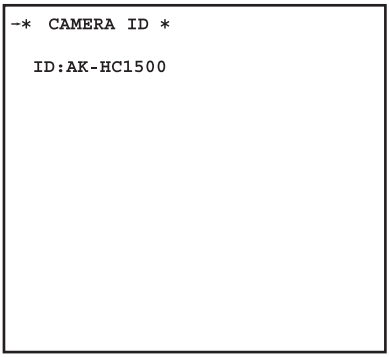
PROTOCOL [1 to 4]
For selecting the remote control communication system in accordance with the system connected.

- **1:** Information camera communication protocol (EIA422)
  For connecting the AK-HRP150
- **2:** Information camera communication protocol (EIA232)
  For connecting a PC
- **3:** Convertible PC control protocol (EIA422)
  For connecting the AW-CB400
  (baud rate fixed at 9600 bps)
- **4:** Convertible PC control protocol (EIA232)
  For connecting the AW-PH400 pan/tilt head (baud rate fixed at 9600 bps)

The protocol is actually switched after the power has been turned off and back on.

Setting of menu items

③ CAMERA ID menu

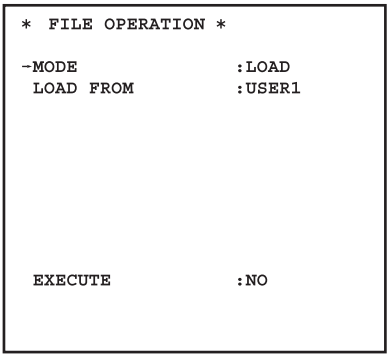


An ID of not more than 10 characters consisting of alphanumerics, symbols and spaces can be set for the camera.
The camera ID is displayed at all times when ON is selected in the CAM ID mode but displayed only when color bar signals are output in the BAR mode.
The status for setting the ID is established by moving the cursor above the colon (:) and selecting it.
Move the cursor to the positions of the characters to be set, select the characters and enter them.

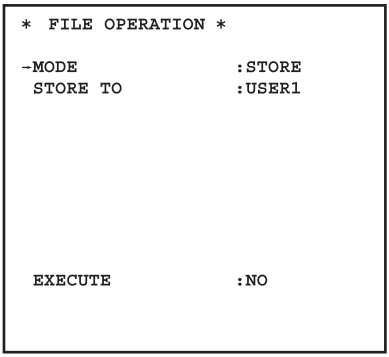
Characters which can be entered:
Spaces, upper-case letters (A to Z), numbers (0 to 9), and symbols (' , >, <, /, -)

Setting of menu items

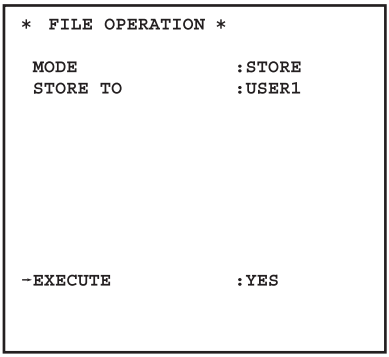
④ FILE OPERATION menu



MODE [LOAD/STORE]
Select LOAD when settings are to be loaded from a file; select STORE when the current settings are to be saved in a file.



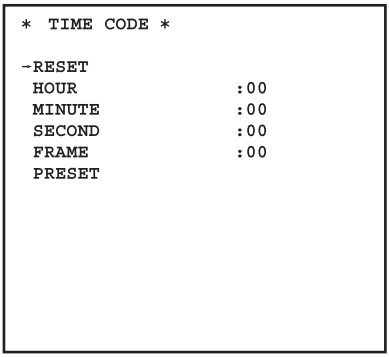
LOAD/STORE FROM
For selecting the LOAD or STORE destination. PRESET, USER1 or USER2 can be selected as the LOAD destination when LOAD has been selected; USER1 or USER2 can be selected as the STORE destination when STORE has been selected.



EXECUTE
LOAD or STORE is executed when NO is switched to YES and the ENTER operation is performed.
The NO setting is returned to the display after the data has been loaded or stored.

Setting of menu items

⑤ TIME CODE menu



TIME CODE is displayed only when FILM MENU has been set and either the 720/60p or 720/59.94p format has been selected.

RESET
For resetting the time code to zero.

HOUR [00 to 23]
For setting the hour digits of the preset value for the time code.

MINUTE [00 to 59]
For setting the minute digits of the preset value for the time code.

SECOND [00 to 59]
For setting the second digits of the preset value for the time code.

FRAME [00, 10, 20, 30, 40, 50]
For setting the frame digits of the preset value for the time code.

PRESET
For presetting the time code.

Setting of menu items

■Menu list

			Scene file items indicated by "○"
MAINTENANCE	1.BLACK SHADING	DETECTION	–
		CORRECT(DIG)	–
	2.PEDESTAL, GAMMA	M PEDESTAL	○*1
		R PEDESTAL	○
		B PEDESTAL	○
		M GAMMA	○
		R GAMMA	○
		B GAMMA	○
		M BLACK GAMMA	○
		R BLACK GAMMA	○
		B BLACK GAMMA	○
		GAMMA	○
		BLACK GAMMA	○
		EFFECT DEPTH	○
		DRS	○
		CINE GAMMA SEL	○
		BLACK STR.LVL	○
		DYNAMIC LVL	○
	3.FLARE	R FLARE	○
		G FLARE	○
		B FLARE	○
		FLARE	○
	4.KNEE, WHITE CLIP	M KNEE POINT	○
		R KNEE POINT	○
		B KNEE POINT	○
		M KNEE SLOPE	○
		R KNEE SLOPE	○
		B KNEE SLOPE	○
		A.KNEE POINT	○
		A.KNEE LVL	○
		M WHITE CLIP LVL	○
		R WHITE CLIP LVL	○
		B WHITE CLIP LVL	○
		KNEE	○
		WHITE CLIP	○
		HIGH COLOR	○
	5.R/B GAIN	R GAIN	○
		B GAIN	○
		ND FILTER	○*1
	6.DETAIL	DETAIL	○
		TOTAL DTL LEVEL	○
		H DTL LEVEL	○
		CRISP	○
		LEVEL DEPENDENT	○
		PEAK FREQUENCY	○
		KNEE APERTURE	○
		KNEE APE LVL	○

Setting of menu items

			Scene file items indicated by "○"
MAINTENANCE	6.DETAIL	SLIM DTL	○
		DETAIL(+)	○
		DETAIL(–)	○
		DETAIL CLIP	○
		DETAIL SOURCE	○
	7.SKIN TONE DTL	SKIN TONE DTL	○
		SKIN GET	○
		SKIN DTL CORING	○
		Y MAX	○
		Y MIN	○
		I CENTER	○
		I WIDTH	○
		Q WIDTH	○
		Q PHASE	○
	8.GAIN,AUTO IRIS	LOW GAIN	○
		MID GAIN	○
		HIGH GAIN	○
		A.IRIS LEVEL	○
		A.IRIS PEAK/AVE	○
		A.IRIS WINDOW	○
		IRIS MODE	–
		IRIS GAIN	–
	9.S.GAIN	MODE	–
		TOTAL GAIN	–
		GAIN	○
		PIX MIX	○
		V MIX	○
		FRAME MIX	○
		H DETAIL LEVEL	○
		CRISP	○
		LEVEL DEPENDENT	○
		PEAK FREQUENCY	○
		M GAMMA	○
		M PED OFFSET	○
		R PED OFFSET	○
		B PED OFFSET	○
	10.FRAME MODE	SCAN REVERSE	–
		FRAME RATE RANGE	–
		FRAME RATE	–
	11.MATRIX	MATRIX TABLE	○
		MATRIX R-G	○
		MATRIX R-B	○
		MATRIX G-R	○
		MATRIX G-B	○
		MATRIX B-R	○
		MATRIX B-G	○

Setting of menu items

			Scene file items indicated by "○"
MAINTENANCE	12.COLOR CORRECTION	R SAT/PHASE	○
		Mg SAT/PHASE	○
		B SAT/PHASE	○
		Cy SAT/PHASE	○
		G SAT/PHASE	○
		Yl SAT/PHASE	○
		R_Mg SAT/PHASE	○
		Mg_B SAT/PHASE	○
		B_Cy SAT/PHASE	○
		Cy_G SAT/PHASE	○
		G_Yl SAT/PHASE	○
		Yl_R SAT/PHASE	○
SETTING	1.MODE	D5600K	○
		LIGHTING	○
		GAIN SELECT	○*1
		CAMERA ID	–
		CAMERA ID POSI	–
		MATRIX TABLE	○
		COLOR CORRECT	○
		DIGITAL EXTENDER	–
		BAR SELECT	–
		FORMAT	–
		STATUS	–
		MENU ON ABB	–
		MENU SEL	–
		FAN	–
	2.SHUTTER	SHUTTER MODE	○*1
		SHUTTER SPEED	○
		SYNCHRO SCAN	○
	3.GEN-LOCK	GEN-LOCK IN	–
		H.PHASE COARSE	–
		H.PHASE FINE	–
		SD→HD PHASE CRS(@SD GL)	–
		SD→HD PHASE FINE(@HD GL)	–
	4.PIX DEFECT(AUTO)	AUTO DETECTION	–
	5.PROTOCOL	PROTOCOL	–
CAMERA ID	ID:		–

Depending on the controller which is connected, some of the controller's setting may take precedence even when a scene file has been loaded.
When the AK-HRP150 is being used, the AK-HRP150 panel statuses will take precedence for those items indicated by *1 on the menu list even when a scene file has been loaded.